

I. REMARKS

I. Status of Claims

Claims 1-13, and 15 are pending in this application. Claim 5 has been amended to correct a typographical error. Specifically, the limitation for R⁵ reciting “-(CH₂)_n-O-R⁶” has been corrected to recite “-O-(CH₂)_n-R⁶.” Support for this amendment can be found, for example, at page 4, line 6 of the original specification, where the correct group is recited.

Applicants would like to thank the Examiner for withdrawing the objection of the title of the invention and the rejection of claims 12, 18 and 19, under 35 U.S.C. § 112, first and/or second paragraph.

II. Rejections under 35 U.S.C. § 112, second paragraph

A. Claim 5

The Examiner rejects claim 5 under 35 U.S.C. § 112, second paragraph, as allegedly being indefinite. In particular, the Examiner takes issue with the limitation reciting in the definition of R⁵, “-(CH₂)_n-O-R⁶”, stating that “[t]here is insufficient antecedent basis for this limitation in the claim.” *Id.* at 3.

Claim 5 has been amended in this response to correct a typographical error in the recitation of the group referenced by the Examiner, which now reads “-O-(CH₂)_n-R⁶.” As mentioned above, support for this amendment can be found, for example, at page 4, line 6 of the original specification, where the correct group is recited. Accordingly, the rejection is now moot and Applicants respectfully request that it be withdrawn.

B. Claim 7

Further, the Examiner rejects claim 7 under 35 U.S.C. § 112, second paragraph, arguing that, there is insufficient antecedent basis for the limitation reciting that the alkyl chains of each of the monoalkylamino and dialkylamino are independently optionally substituted by “. . . a group of formula $-(CH_2)_n-R^6$, wherein n is an integer from 0 to 4 and R^6 is an aryl group in the definition of R^4 .” *Id.* Applicants respectfully traverse this rejection for at least the reason that claim 1, from which claim 7 ultimately depends, recites that R^4 can be chosen from:

- a) hydrogen;
- b) a group of formula $-(CH_2)_n-R^6$;
- c) or a **hydrocarbon chain chosen from alkyl,**

optionally substituted by one or more substituents including *inter alia*, amino, **monoalkylamino, and dialkylamino groups**; wherein each of the alkyl chains in the alkoxy, alkylthio, monoalkylamino or dialkylamino substituents **is independently optionally substituted by one or more further substituents chosen from $-(CH_2)_n-R^6$, hydroxy, oxo, . . . , and each R^6 is independently chosen from each other.** Further, R^6 , as defined in claim 1, can be chosen from 3-7 membered aromatic groups, which encompass **aryl groups**.

Thus, Applicants submit that the limitation in claim 7 for R^4 , reciting a group “ $-(CH_2)_n-R^6$, wherein n is an integer from 0 to 4 and R^6 is an aryl group” is within the scope of claim 1, as R^4 can be chosen from an alkyl substituted by monoalkylamino or dialkylamino groups, further substituted by $-(CH_2)_n-R^6$; and wherein R^6 can be chosen, *inter alia*, from aryl groups, as defined in claim 1. Accordingly, Applicants assert that

claim 1 provides sufficient antecedent basis for the limitation of the R⁴ substituent in claim 7. For these reasons, Applicants respectfully request that this rejection be withdrawn.

C. Claim 8

Lastly, the Examiner rejects claim 8 under 35 U.S.C. § 112, second paragraph, alleging that there is insufficient antecedent basis for the limitation reciting alkyl, alkenyl, and alkynyl chains being independently “optionally substituted by one or more groups of formula $-(CH_2)_n-R^6$ in the definition of R⁴ and R⁵.” *Id.* The Examiner also argues that claim 8 lacks antecedent basis for the limitation “wherein each of the alkyl chains in these R⁸ substituents is independently optionally substituted by one or more further substituents chosen from a group of formula $-(CH_2)_nR^6$, and hydroxy, halogen, alkoxy, alkylthio, amino, monoalkylamino and dialkylamino groups; wherein each of the R⁶ groups is independently chosen from each other” *Id.* Applicants respectfully disagree and traverse the rejection based at least on the following reasons.

Claim 1, from which claim 8 depends, recites that:

d) alternatively, R⁴ and R⁵, together with the nitrogen atom to which they are attached, form a 3- to 7- membered aromatic or non-aromatic cyclic group ... wherein each of the cyclic groups is independently substituted by one or more substituents chosen from $-(CH_2)_nR^6$ and R⁷; wherein **each of the hydrocarbon chains** and each of the cyclic moieties of the R⁷ substituents **is independently optionally substituted by one or more further substituents chosen from $-(CH_2)_nR^6$ and R⁸; wherein each of the alkyl chains in the R⁸ substituents is independently optionally substituted by one or more further substituents chosen from $-(CH_2)_nR^6$, hydroxy, halogen, alkoxy, alkylthio, amino, monoalkylamino and dialkylamino groups; wherein each of the R⁶ substituents is independently chosen from each other;**

Therefore, Applicants assert that there is sufficient antecedent basis in claim 1 for the both limitations recited in claim 8. Accordingly, Applicants respectfully request the withdrawal of the rejection.

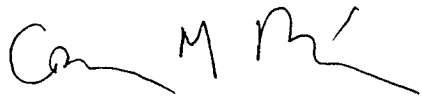
III. Conclusions

In view of the foregoing amendments and remarks, Applicants submit that the invention fully complies with the requirements of 35 U.S.C. §112 and therefore request the entry of this Response, the Examiner's reconsideration of the application, and the timely allowance of the pending claims.

Please grant any extensions of time required to enter this response and charge any additional required fees to Deposit Account No. 06-0916.

Respectfully submitted,

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